

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564274

Luminaire Tested: **SQ4-PR1-100U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564274  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-100U-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

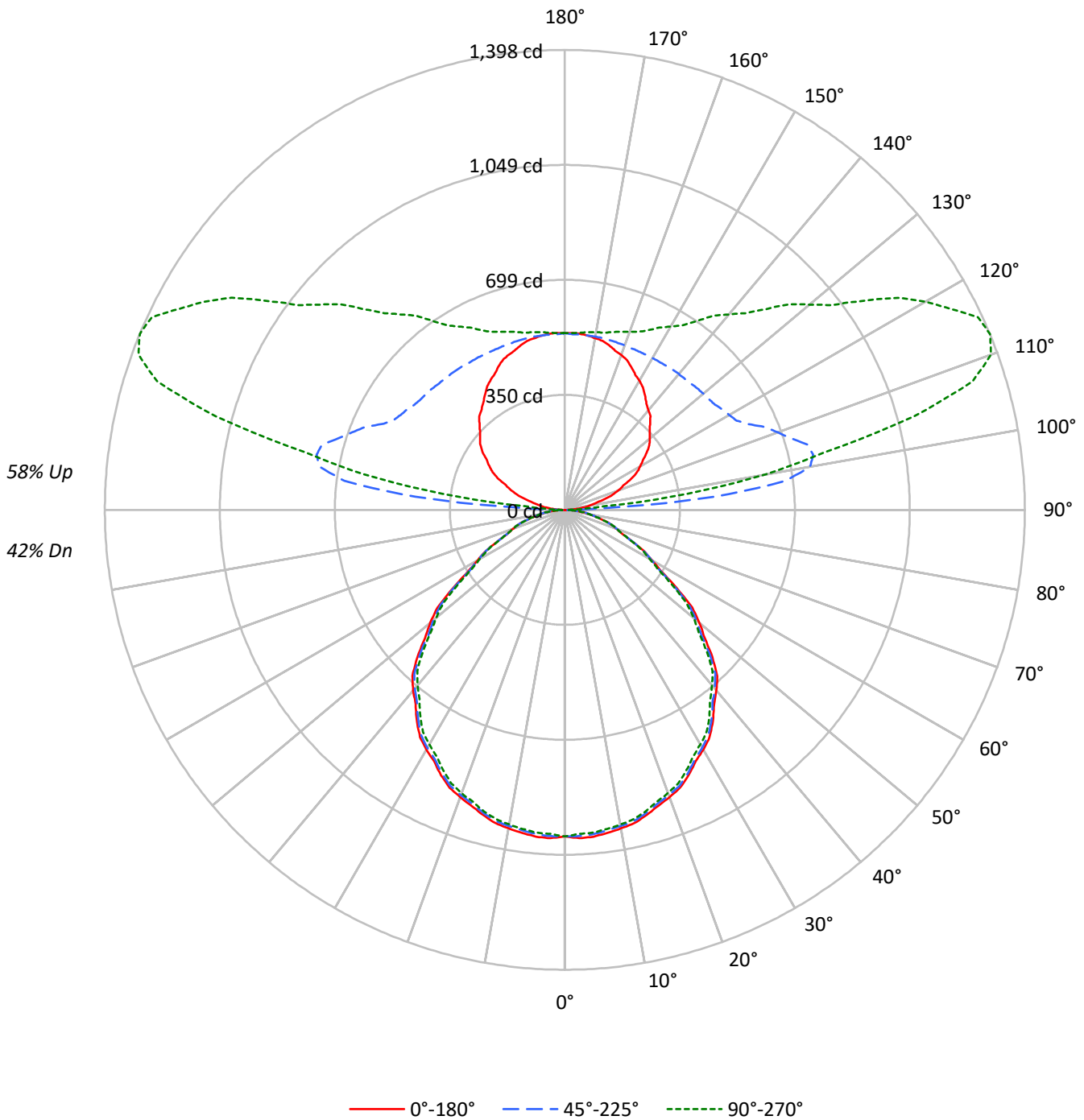
Lumens per Lamp: N/A  
Luminaire Lumens: 5972.5 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 49.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9066	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8629	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6532	6396
60°	5634	5586	5475
65°	4873	4890	4853
70°	4475	4497	4497
75°	4299	4299	4328
80°	4043	4091	4043
85°	3260	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.6
10°-20°	268.6	4.5
20°-30°	405.1	6.8
30°-40°	482.7	8.1
40°-50°	475.9	8.0
50°-60°	363.7	6.1
60°-70°	225.1	3.8
70°-80°	127.8	2.1
80°-90°	40.0	0.7
90°-100°	251.5	4.2
100°-110°	694.4	11.6
110°-120°	716.1	12.0
120°-130°	575.5	9.6
130°-140°	452.3	7.6
140°-150°	346.9	5.8
150°-160°	249.3	4.2
160°-170°	152.5	2.6
170°-180°	51.4	0.9
0°-30°	767.6	12.9
0°-40°	1250.3	20.9
0°-60°	2089.9	35.0
0°-90°	2482.8	41.6
90°-120°	1662.0	27.8
90°-150°	3036.6	50.8
90°-180°	3490.0	58.4
0°-180°	5972.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	489
45°	634	626	623	612	610	486
55°	416	409	406	399	398	372
65°	223	222	224	222	222	226
75°	121	121	121	121	121	127
85°	31	32	34	34	34	36
90°	2	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.2	992.7	990.5	985.9
5°	997.8	987.0	990.1	986.7	985.0
7.5°	990.1	979.4	982.6	979.2	978.2
10°	983.3	973.3	976.5	973.0	971.3
12.5°	975.8	965.1	968.9	964.8	963.1
15°	960.2	950.2	954.2	950.8	949.1
17.5°	943.1	932.4	936.4	932.5	930.3
20°	929.4	919.4	923.4	917.4	916.6
22.5°	914.4	904.4	908.4	900.4	900.2
25°	890.1	879.2	884.1	874.7	873.9
27.5°	861.2	851.2	855.2	845.6	844.6
30°	841.4	831.3	835.4	825.1	823.4
32.5°	818.8	809.4	812.8	802.5	801.5
35°	784.1	774.9	777.2	767.0	766.1
37.5°	744.6	736.2	737.6	726.3	725.4
40°	716.5	708.2	708.8	696.8	696.0
42.5°	685.7	677.4	676.7	664.7	663.9
45°	634.4	626.1	623.3	612.2	610.5
47.5°	576.0	567.6	562.4	553.4	552.2
50°	533.5	525.2	520.7	513.0	510.5
52.5°	487.7	479.4	475.6	468.5	466.0
55°	415.6	408.9	406.1	399.3	397.6
57.5°	347.0	342.5	341.7	335.0	334.3
60°	305.3	302.7	302.7	296.7	296.7
62.5°	269.7	267.8	269.2	265.2	264.6
65°	223.2	221.5	224.0	222.3	222.3
67.5°	186.4	186.4	187.9	187.3	187.3
70°	165.9	165.9	166.7	166.7	166.7
72.5°	147.4	146.7	148.9	148.9	148.3
75°	120.6	120.6	120.6	121.4	121.4
77.5°	93.9	94.1	94.7	94.6	93.9
80°	76.1	76.9	77.0	76.1	76.1
82.5°	58.3	59.1	59.2	59.0	58.3
85°	30.8	32.5	34.2	34.2	34.2
87.5°	9.2	12.2	15.1	15.2	14.7
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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CATALOG NUMBER: SQ4-PR1-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)